

SFWMD - SLUG TEST FROM RECOVERY DATA

Project: SLE/IRL
Client: SFWMD

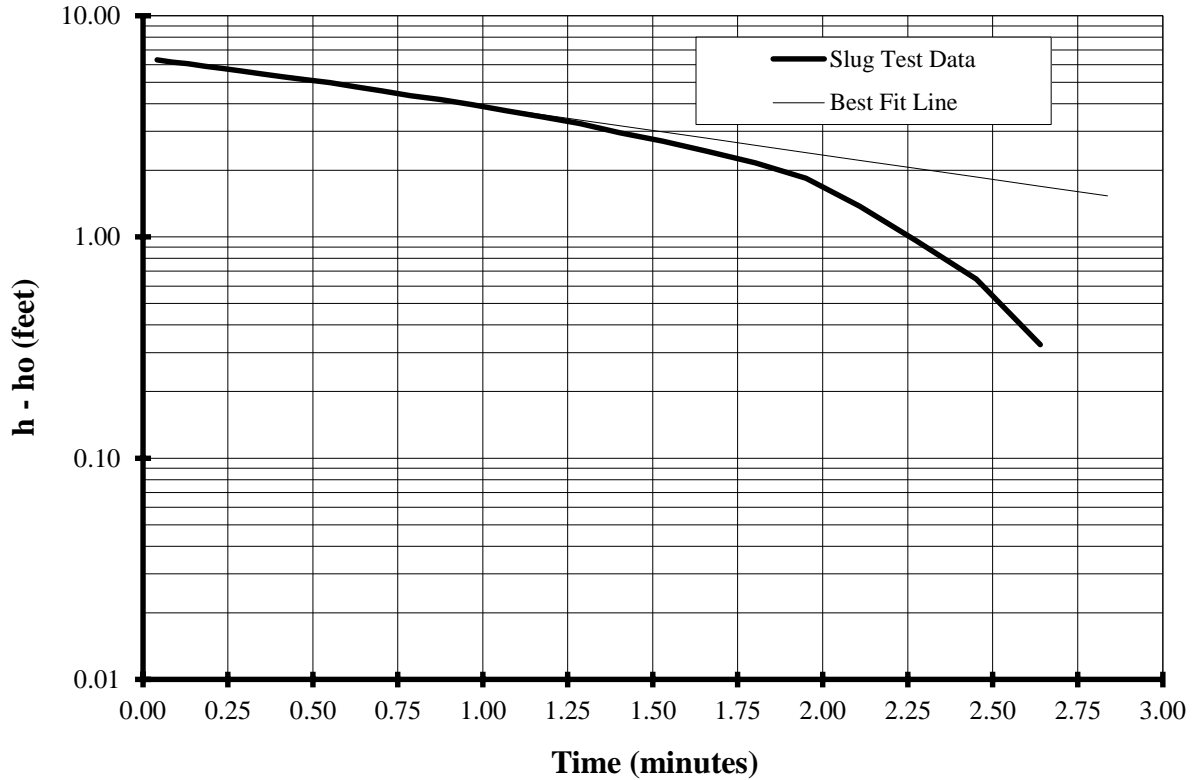
Date of Test: 3/28/02
Well Number: SLHRG1

Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)	Incremental Values		H/Ho (-)
Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)		Time (min)	Head (feet)	
0.000	6.42	1.00									
0.042	6.32	0.98									
0.086	6.17	0.96									
0.133	6.07	0.95									
0.183	5.91	0.92									
0.236	5.77	0.90									
0.292	5.61	0.87									
0.351	5.45	0.85									
0.413	5.30	0.83									
0.480	5.14	0.80									
0.550	4.98	0.78									
0.625	4.77	0.74									
0.704	4.57	0.71									
0.787	4.35	0.68									
0.876	4.18	0.65									
0.970	3.96	0.62									
1.069	3.72	0.58									
1.174	3.49	0.54									
1.286	3.26	0.51									
1.404	2.96	0.46									
1.529	2.71	0.42									
1.662	2.44	0.38									
1.802	2.16	0.34									
1.951	1.84	0.29									
2.108	1.38	0.21									
2.275	0.96	0.15									
2.452	0.65	0.10									
2.639	0.33	0.05									
2.838	0.00	0.00									

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SLUG TEST



WELL CONSTRUCTION DATA

R casing = 0.08 feet
 R gravel pack = 0.25 feet
 Porosity of the aquifer = 0.25
 Porosity of gravel pack = 0.30
 Effective radius of casing = 0.10 feet (Rc)
 Casing radius for analysis = 0.11 feet (Rw)
 Radius of well for analysis = 0.25 feet
 Casing Stickup = -0.30 feet als
 Depth of water = 10.38 feet btoc
 Depth of well = 59.04 feet btoc
 Depth of aquifer = 59.04 feet bls
 Depth to top of filter pack = 55.04 feet bls
 Length of screen = 2.00 feet
 Length of gravel pack = 4.00 feet
 L (input) = 4.00 feet
 Case = 2

SLUG TEST DATA/RESULTS

(Bouwer Rice Method)
 L/Rw = 16
 A = 2.02
 B = 0.28
 C = 1.47
 H = 48.66 feet
 ln[(D-H)/Rw] = 3.73
 Ln (Ri/Rw) = 3.33
 R influence = 6.97 feet (Ri)
Line Fit Range and Parameters
 t minimum = >.10 minutes
 t maximum = <0.20 minutes
 r 2 = 1.000
 Estimated K h = 4 feet/day